

## PRACTICE QUESTIONS

Microsoft

# AI-200

Azure AI Cloud Developer Associate

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|           |                                                      |
|-----------|------------------------------------------------------|
| EDITION   | Free Set 2                                           |
| QUESTIONS | 10                                                   |
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| EXAM      | Microsoft AI-200, Azure AI Cloud Developer Associate |

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10 practice questions for the Microsoft AI-200 exam, Azure AI Cloud Developer Associate, each followed by its answer and a short explanation. More free sets and the full practice exam: [aiexamcerts.com/microsoft/ai-200](https://aiexamcerts.com/microsoft/ai-200). Spotted a mistake? Email [support@aiexamcerts.com](mailto:support@aiexamcerts.com) with the exam code AI-200 and the question number.

1. In pgvector, the operator that returns Euclidean (L2) distance between two vectors is \_\_\_\_\_.

**Answer: <->**

The <-> operator computes L2 distance, the straight-line distance between two vectors. The cosine distance operator and the negative inner product operator serve different similarity measures. Pick the operator that matches how the embeddings were trained.

2. A RAG query must return the five nearest chunks, but only from the document set hr-2026. Which PostgreSQL query does this?
  - A SELECT content FROM chunks ORDER BY random() LIMIT 5
  - B SELECT content FROM chunks WHERE doc\_set = 'hr-2026' ORDER BY embedding <=> \$1 LIMIT 5
  - C Create a new table for every query at runtime, copy the matching chunks into it, and read from it
  - D SELECT content FROM chunks ORDER BY embedding <#> \$1

**Answer: B**

The WHERE clause applies the metadata filter, the ORDER BY with the cosine distance operator ranks by similarity, and LIMIT 5 returns the five nearest chunks. ORDER BY random() returns arbitrary rows, and the query without a filter or limit returns every chunk from every document set. Creating a table per query is impractical and bypasses the index design.

3. Azure Managed Redis is a suitable place to keep the only durable copy of transactional order records, because it persists everything the application writes.
  - A True
  - B False

**Answer: B (False)**

Redis is primarily used as a cache or fast data store, and cached data is expected to expire or be evicted, so it should not hold the only copy of records that must be kept. Durable transactional records belong in a system of record such as a database. The statement is false.

4. A container app must scale between two and ten replicas based on load. Which part of the revision configuration defines those counts?
- A The ingress targetPort setting
  - B The registry identity setting
  - C The scale block with minReplicas and maxReplicas
  - D The Dapr appPort setting

**Answer: C**

The scale block of a Container Apps revision sets minReplicas and maxReplicas, and scale rules determine when replicas are added or removed within those bounds. The ingress target port tells the platform which container port receives traffic. The registry identity and the Dapr app port control image pulls and sidecar routing, not replica counts.

5. An operations team must be alerted when an Azure Cosmos DB account starts returning HTTP 429 throttling responses. Which Azure Monitor configuration does this?
- A A diagnostic setting that sends logs to a storage account and deletes them after seven days
  - B An Azure DNS record that points to the account endpoint
  - C A Key Vault certificate that rotates on a schedule
  - D A metric alert rule that filters the account's request metrics for status code 429

**Answer: D**

A metric alert rule evaluates a request metric and can filter it by the status code dimension, so it fires when 429 responses appear. A diagnostic setting only routes or retains logs and does not raise alerts on its own. DNS records and Key Vault certificates have no bearing on throttling alerts.

6. The Azure CLI command that authenticates the local Docker client to an Azure Container Registry is az acr \_\_\_\_\_.

**Answer: login**

az acr login --name registryname configures the local Docker client with a token for the registry so that docker push and docker pull work. The command is a subcommand of az acr and its name is login. It does not build or tag images.

7. A container app keeps exiting with out-of-memory errors after each deployment. Which setting should be increased first?
- A The memory allocated to the container in the revision resources
  - B The ingress timeout for incoming requests
  - C The number of revisions kept on the environment
  - D The custom domain certificate binding

**Answer: A**

Out-of-memory exits are caused by the container exceeding the memory limit allocated in its resources, so raising that allocation addresses the cause. The ingress timeout affects request duration, not memory. The number of revisions and the custom domain binding do not change how much memory a container can use.

8. In an AKS Deployment, the selector must match the labels in the pod template, or the Deployment cannot manage its pods.
- A True
  - B False

**Answer: A (True)**

A Deployment uses its selector to identify the pods it owns, and the selector must match the labels on the pod template, otherwise the API server rejects the manifest. The statement is true. This is why the labels in both places must be kept in step.

9. Which Azure Cosmos DB for NoSQL query returns the five items most similar to a query vector?
- A `SELECT TOP 5 c.id FROM c WHERE CONTAINS(c.text, @keyword)`
  - B `SELECT TOP 5 c.id FROM c ORDER BY VectorDistance(c.embedding, @queryVector)`
  - C `SELECT c.id FROM c JOIN p IN c.partitions WHERE p.id = 5`
  - D A point read by item id using the query vector as the id

**Answer: B**

ORDER BY VectorDistance with TOP returns the nearest items from the embedding property using the vector index. The CONTAINS query is a keyword match, which ignores semantic similarity. A point read needs an item id, and a join over partitions does not rank by similarity.

10. An application stores 1536-dimension embeddings in Azure Managed Redis and needs approximate nearest-neighbor search. What must it create before running vector queries?
- A A stored procedure that scans every key
  - B A foreign key between the embedding and the document
  - C A vector index over the embedding field
  - D A materialized view that copies each vector

**Answer: C**

Redis vector similarity search needs a vector index defined over the field that holds the embeddings, and queries then use that index for nearest-neighbor lookups. Redis has no stored procedures in the relational sense, and foreign keys and materialized views are relational database concepts that do not provide vector search.